

RECEIVED

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STATE OF ILLINOIS

ADDISON/ESCAST

CC - DWPC/FOS/RU  
- DWPC/Ind. Permits  
- DWPC/CAS  
- OLPL MAYWOOD  
- EPS MAYWOOD

INSPECTION NOTES

ESCAST, INC.  
(DuPage County)

INSPECTION DATE:

April 19, 1984

INSPECTED BY:

Chris Kallis, EPS

On the afternoon of the above date, an inspection was made of Escast, Inc. in Addison. Observation of the receiving manhole (A on the attached diagram) showed a steady flow coming from the north inlet pipe. The quality of the effluent from the pipe was obvious oily and of very warm temperature. A flow was also noticed discharging from the pipe coming from Escast's pit, that had been plugged recently at the request of the Agency. A sample of the manholes total effluent, was taken at the point just at the overflow pipe. Samples showed (number 1) that the Biochemical Oxygen Demand was at 53 mg/l and Total Suspended Solids was 350 mg/l (14% which were volatile. pH and oil was also significant.

A few minutes later I entered Escast's office and talked with Jerrie Brown the Plant Manager. Brown stated that he did not think there could be a flow coming from the pit because of the installed plug and that he was getting concerned about the level of the pit.

The pit was greenish in color and the level was about a foot and a half from the top. Upon opening the manhole (B on the diagram), a leak from the upper plug was discovered. A sample taken showed a high pH of 11.9 and Total Suspended Solids to be at 58 mg/l. Brown stated that though he has been generally observing the lagoon daily, he has not kept an accurate log of the pits level. Another sample (number 3) was also taken back at the overall receiving manhole (A on the diagram) except that this sample was composed of what was going into the manhole at the inlet pipe.

A check of the cooling water discharge from the chillers a minor flow that was neither warm nor oily. At the opening of a manhole further to the north, another discharge was discovered to be coming from Escast's building. It had a noticeable oil sheen and was very warm. It was discovered to be coming from a compressor that was in bad condition and leaking oil. The sample (number 4) was taken at Point D

EPA Region 5 Records Ctr.

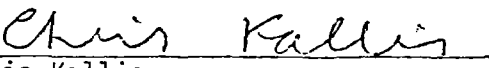


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ESCAST, INC.  
April 19, 1984  
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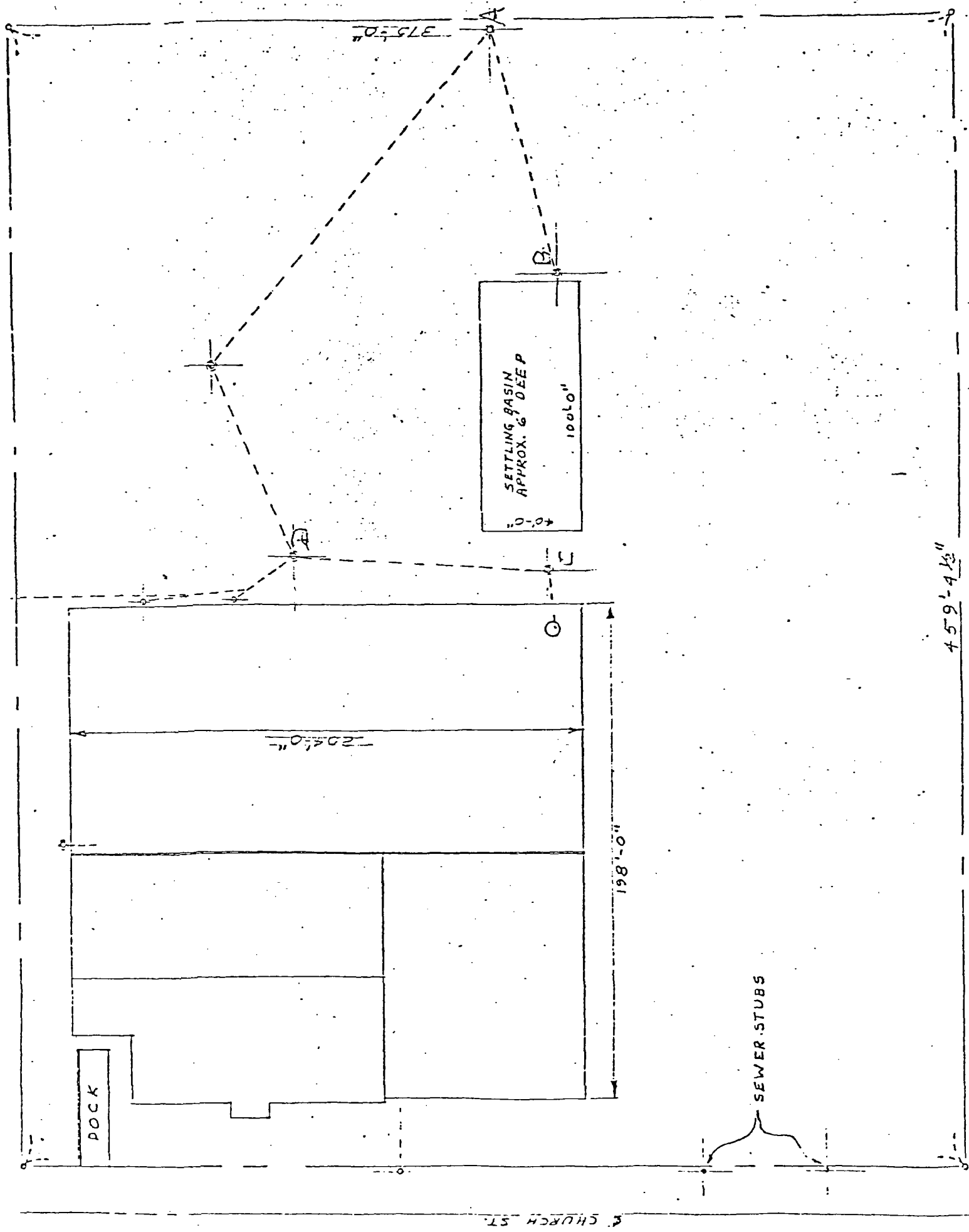
on the diagram and had an oil content of 435 mg/l, which is 29 times State effluent limitations. The flow was estimated to be at least 2 gpm.

In addition to this inspection a Form 20 Material Safety Data Sheet was received by this Agency on Kolene number 4, which is used by Escast Inc. This is the material that Escast Inc. admitted to spilling in the pit on their DMR's (attached) on December 16, 1983 and October 27, 1983, "accidentally." The sheet is also attached.

  
Chris Kallis  
Environmental Protection Specialist

CK:wn

25  
596



45'9" x 41'3"

CHURCH ST.

## SPECIAL ANALYSIS FORM

Time Collected 3:40Sub-Basin MC 4872 APR 20Date Collected 4-14-84Collector CHALLIS

Facility Name: \_\_\_\_\_ Facility Number: \_\_\_\_\_

File Town addisonStream Name(s) Esgast CreekStream Code: 5411 creek

Source of Sample: (Exact Location)

Sample ~~at~~ From manhole west of  
Esgast property near overflowed pipe

Physical Observations, Remarks:

low	Field Dissolved Oxygen	Field pH	Field Temp.
Arsenic	Coliform/100ml	<u>53</u>	<u>BOD</u>
Barium	Fecal Coliform	<u>90</u>	<u>COD</u>
Boron	Fecal Strept	<u>811</u>	<u>TS/EC</u>
Cadmium	Algae (Total) /ml	<u>350</u>	<u>Susp. Solids</u>
Copper	Ammonia (N)	<u>50</u>	<u>Vol. Susp. Solids</u>
Chromium (tri)	Organic Nitrogen (N)	<u>9.4</u>	<u>pH (units)</u>
Chromium (hex)	Nitrate + Nitrite (N)		<u>Turbidity (JTU)</u>
Iron (Total)	Phosphorus (P)		<u>Hardness</u>
Iron (Dissolved)	Chloride		<u>Alkalinity</u>
Lead	Fluoride		<u>Total Acidity</u>
Manganese	Sulfate		<u>Free Acidity</u>
Mercury (ppb)	Cyanide	<u>10</u>	<u>Oil</u>
Nickel	MBAS		<u>Other (Specify)</u>
Selenium	Phenol (ppb)		
Silver			
Zinc			

Results in mg/l unless  
otherwise noted.100% Recycled Paper  
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Transported by: <u>CHALLIS</u>
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY	
Lab Number: <u>C0048721</u>	Rec'd by: <u>Teale</u>
Date sample rec'd: <u>4-20-84</u>	Time: <u>9:30</u>
Date analysis completed: _____	
Date results forwarded: <u>4-24-84</u>	
Total Tests requested: _____ Tests run: _____	
Lab Section: <u>Cherry</u> Supervisor: <u>Daugherty</u>	

## WATER QUALITY AND WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY <u>C. Kallig</u>		LOCATION OF SAMPLING POINT <u>East end 4873</u>	
BASIN	SUB-BASIN (IF NONE ENTER "DIRECT")	TRIBUTARY	MINOR TRIBUTARY
SEND ORIGINAL OF RESULTS TO: <u>main blood</u>		SUB-BASIN OFFICE	PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD
SEND COPY OF RESULTS TO: <input type="checkbox"/> EDP SERVICES SECTION, SPRINGFIELD			
CARD COL. 1	CARD NO. 1	CARD COL. 2	CARD NO. 2
2-5 <u>GK</u>	BASIN CODE	6-7 <u>02</u>	PLANT OR STATION NO.
11-17 <u>C004873</u>	LAB ID NO.	11-17 <u>C004873</u>	LAB ID NO.
18	SAMPLE TYPE CODE (SEE LIST BELOW)	18	SAMPLE TYPE CODE
19-20 <u>84</u>	YEAR	19-20 <u>84</u>	YEAR
21-22 <u>04</u>	MONTH	21-22 <u>04</u>	MONTH
23-24 <u>19</u>	DAY	23-24 <u>19</u>	DAY
25-26 <u>04</u>	HOUR (NEAREST)	25-26 <u>04</u>	HOUR (NEAREST)
27 <u>P</u>	TIME OF DAY (A,P,N.)	27 <u>P</u>	TIME OF DAY (A,P,N.)
28-30	WATER TEMPERATURE (DEG. F.)	28-30	WATER TEMPERATURE (DEG. F.)
31-33	FIELD D.O.	31-33	FIELD D.O.
PH UNITS	<u>11.9</u>	PH UNITS	<u>11.9</u>
TOTAL PHOSPHORUS	<u>0.12</u>	TOTAL PHOSPHORUS	<u>0.12</u>
AVG. BOD	<u>6</u>	AVG. BOD	<u>6</u>
C.O.D.	<u>29</u>	C.O.D.	<u>29</u>
PHENOLS	<u>0.10</u>	PHENOLS	<u>0.10</u>
AMMONIA N	<u>0.10</u>	AMMONIA N	<u>0.10</u>
NITRATE N	<u>0.10</u>	NITRATE N	<u>0.10</u>
ORGANIC N	<u>0.10</u>	ORGANIC N	<u>0.10</u>
TOTAL N	<u>0.10</u>	TOTAL N	<u>0.10</u>
T.D.S./E.C.	<u>400</u>	T.D.S./E.C.	<u>400</u>
TOTAL SUSP. SOLIDS	<u>58</u>	TOTAL SUSP. SOLIDS	<u>58</u>
SAMPLE TYPE CODES: A = DOMESTIC WASTE ONLY I = INDUSTRIAL WASTE ONLY M = MIXED DOMESTIC & INDUSTRIAL WASTE S = STREAM, LAKE, OR RECEIVING WATER QUALITY T = MINE DRAINAGE OR WASTE X = OTHER OR TYPE UNKNOWN		ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED. PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER, LOCATION OF SAMPLING POINT) <u>From plug outlet</u> <u>greenish color</u>	

## SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY C. Kallig

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

TRANSPORTED BY \_\_\_\_\_

RECEIVED BY \_\_\_\_\_ TIME \_\_\_\_\_

## FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY M. L. LoecherDATE REC'D 4-22-84 TIME REC'D 9:30

DATE ANALYSES COMPLETED \_\_\_\_\_

DATE RESULTS FORWARDED \_\_\_\_\_

TOTAL TESTS REQUESTED \_\_\_\_\_ TESTS RUN \_\_\_\_\_

LAB SECTION Chicago SUPERVISOR Jaugherty

WPC-129 REV. 7/72 100% Recycled Paper

## SPECIAL ANALYSIS FORM

C 4874 APR 20

Time Collected 4:20Sub-Basin maywoodDate Collected 4-19-84Collector C. K. Harris

Facility Name: \_\_\_\_\_ Facility Number: \_\_\_\_\_

File Town addisonStream Name(s) East branch

Stream Code: \_\_\_\_\_

Source of Sample: (Exact Location) South creek

Source of Sample: (Exact Location) \_\_\_\_\_

Sample of upstream pipe effluent in  
manhole

Physical Observations, Remarks: \_\_\_\_\_

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
Arsenic	Coliform/100ml	<u>55</u>	<u>BOD</u>
Barium	Fecal Coliform	<u>91</u>	<u>COD</u>
Boron	100 ml	<u>721</u>	<u>TS/EC</u>
Cadmium	Fecal Strep	<u>460</u>	<u>Susp. Solids</u>
Copper	100 ml	<u>60</u>	<u>Vol. Susp. Solids</u>
Chromium (tri)	Algae (Total) /ml	<u>9.2</u>	<u>pH (units)</u>
Chromium (hex)	Ammonia (N)		<u>Turbidity (JTU)</u>
Iron (Total)	Organic Nitrogen (N)		<u>Hardness</u>
Iron (Dissolved)	Nitrate + Nitrite(N)		<u>Alkalinity</u>
Lead	Phosphorus (P)		<u>Total Acidity</u>
Manganese	Chloride		<u>Free Acidity</u>
Mercury (ppb)	Fluoride	<u>14</u>	<u>Oil</u>
Nickel	Sulfate		<u>Other (Specify)</u>
Selenium	Cyanide		
Silver	MBAS		
Zinc	Phenol (ppb)		

Results in mg/l unless  
otherwise noted.100% Recycled Paper  
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EPA 2 2172

Transported by: <u>P. Harris</u>
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY	
Lab Number: <u>C004874</u>	Rec'd by: <u>Teal</u>
Date sample rec'd: <u>4-20-84</u>	Time: <u>9:30</u>
Date analysis completed: _____	
Date results forwarded: <u>4-19-84</u>	
Total Tests requested: _____	Tests run: _____
Lab Section: <u>Chem</u>	Supervisor: <u>Dauber</u>

## SPECIAL ANALYSIS FORM

C 4875 APR 20 1984

Time Collected 4:40Sub-Basin MaywoodDate Collected 4-19-84Collector C. K. H. H.

Facility Name: \_\_\_\_\_ Facility Number: \_\_\_\_\_

File Town AddisonStream Name(s) East dnc

Stream Code: \_\_\_\_\_

Source of Sample: (Exact Location)

Sample of number 2 CWD From Compressor

Physical Observations, Remarks:

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
_____ Arsenic	_____ Coliform/100ml	_____ BOD	
_____ Barium	_____ Fecal Coliform	_____ COD	
	100 ml		
_____ Boron	_____ Fecal Strep	_____ TS/EC	
	100 ml		
_____ Cadmium	_____ Algae (Total) /ml	_____ Susp. Solids	
_____ Copper	_____ Ammonia (N)	_____ Vol. Susp. Solids	
_____ Chromium (tri)	_____ Organic Nitrogen (N)	_____ pH (units)	
_____ Chromium (hex)	_____ Nitrate + Nitrite (N)	_____ Turbidity (JTU)	
_____ Iron (Total)	_____ Phosphorus (P)	_____ Hardness	
_____ Iron (Dissolved)	_____ Chloride	_____ Alkalinity	
_____ Lead	_____ Fluoride	_____ Total Acidity	
_____ Manganese	_____ Sulfate	_____ Free Acidity	
_____ Mercury (ppb)	_____ Cyanide	435 (Oil)	
_____ Nickel	_____ MBAS	_____ Other (Specify)	
_____ Selenium	_____ Phenol (ppb)		
_____ Silver			
_____ Zinc			

Results in mg/l unless otherwise noted.

100% Recycled Paper  
IL532-0546

Transported by: <u>Travis</u>
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY	
Lab Number <u>E0048751</u>	Rec'd By: <u>Edith</u>
Date sample rec'd: <u>4-20-84</u>	Time: <u>9:30</u>
Date analysis completed: _____	
Date results forwarded: <u>4-25-1984</u>	
Total Tests requested: _____	Tests run: _____
Lab Section: <u>Chem</u>	Supervisor: <u>Kauffman</u>